SID-42,22 영)10. 25수정 2003.11.14 12:38 PM 페이지1

SAMSUNG TECHWIN

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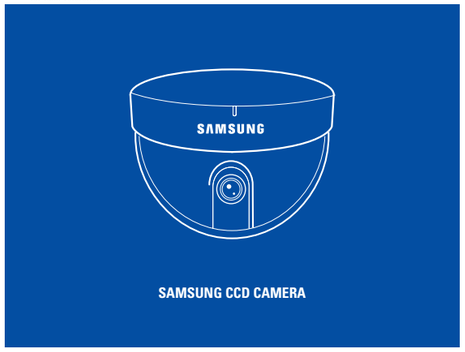
SAMSUNG TECHWIN

MINI DOME CAMERA
INSTRUCTION MANUAL

SID-42CN / CP
SID-22CN / CP

About this manual

Before installing and using the camera, please read this manual carefully. Be sure to keep it handy for later reference.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will required to correct the interference at his own expense.

WARNING - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION : To prevent electric shock and risk of fire hazards:
◆Do NOT use other than specified power source.
◆Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

Thank you for purchasing a SAMSUNG CCD CAMERA.
Before operating the camera, confirm the camera model and proper input power voltage. In order that you can understand this manual thoroughly, we'll introduce our model description.

■SID-42C Model Series (410,000 Pixels)
SID-42CN
SID-42CP

■SID-22C Model Series (270,000 Pixels)
SID-22CN
SID-22CP

■Model Description
SID-42CX SID-22CX
Signal System (NTSC or PAL)
Pickup Device

• Pickup Device
42C → 410,000 Pixels Color CCD 22C → 270,000 Pixels Color CCD

• Signal System
N → NTSC P → PAL

FEATURES

High Resolution: The horizontal resolution of 480 TV lines can be achieved by using a high density CCD having effective 410,000 pixels, which provides clean, noiseless and reliable pictures. (SID-22C series have 270,000 pixels and can achieve 330 TV lines.)

Powerful Back Light Compensation: The BLC technology allows the camera to obtain the clear picture, the finest detail and perfect light contrast al though there is strong light back of the subject.

Functional Selection Switches: Camera Control is available using DIP switches.

Pan and Tilt: Pan and tilt are available after installing camera

PRECAUTIONS

Do not install the camera in extreme temperature conditions.

Only use the camera under conditions where temperatures are between -10°C and +50°C. Be especially careful to provide ventilation when operating under high temperatures.

Do not install or use the camera in an environment where the humidity is high.

It can cause the image quality to be poor.

Do not install the camera under unstable lighting conditions.

Severe lighting change or flicker can cause the camera to work improperly.

Never use the camera close to a gas or oil leak.

It can cause malfunctions to occur.

Do not disassemble the camera.

There are no user-serviceable parts inside it.

Do not touch the front glass of the camera.

It is one of the most important parts of camera. Be careful not to be stained by fingerprint.

Never keep the camera face to strong light directly.

It can damage the CCD.

Do not drop the camera or subject them to physical shocks.

It can cause malfunctions to occur.

Do not expose the camera to rain or spill beverage on it.

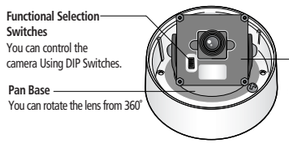
If it gets wet, wipe it dry immediately. Liquids can contain minerals that corrode the electronic components.

Notes

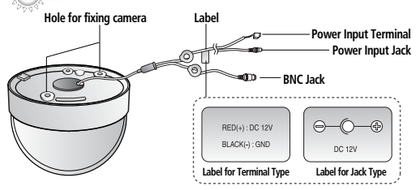
- If the camera is exposed to spotlight or object reflecting the strong light, smear or blooming may occur.
- Please check the power whether it satisfies the normal specification before connecting the camera.

GETTING TO KNOW YOUR CAMERA

Front


Functional Selection Switches
You can control the camera Using DIP Switches.
Pan Base
You can rotate the lens from 360°
Tilt Base
You can adjust up and down the camera(10°~90°).

Back

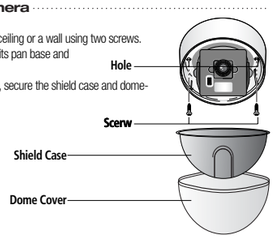


Accessories

INSTALLATION

Installing Camera

1. Fix the camera to a ceiling or a wall using two screws.
2. After fixing it, adjust its pan base and tilt base properly.
3. After adjusting them, secure the shield case and dome-cover.



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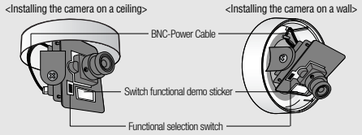
Notes

- When installing the camera on a ceiling or a wall, not to disturb adjustment of Tilt Base angle fix the BNC-Power Cable on the Pan Base clip.

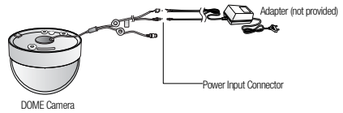
<Installing the camera on a ceiling> <Installing the camera on a wall>



- When installing the camera on a ceiling or a wall, fluctional selection switch should be bottom-left and switch function demo sticker under the lens.

Connection to Power

- Connect the adapter to the power input connector as shown in the figure below. Use a DC 12V. (The Adapter is not provided with the Dome Camera.)



For DC Power Type

Resistance of copper wire [at 20℃ (68℉)]

Copper wire size (AWG)	#24(0.22mm²)	#22(0.33mm²)	#20(0.52mm²)	#18(0.83mm²)
Resistance (Ω / m)	0.078	0.050	0.030	0.018
Voltage Drop (V/m)	0.028	0.018	0.011	0.006

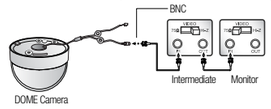
- As the voltage drop according to the length of the cable in the above table, a camera may malfunction if there is an excessively long cable run.

* Voltage for camera operation: 12V DC ±10%
* Voltage drops in the above table are variable according to types of cable manufacturer.

Connection to Monitor

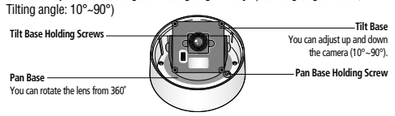
Connect the VIDEO-OUT jack to the VIDEO-IN jack of monitor.

- As a connecting method varies according to instruments, refer to the manual supplied with the instrument.
- Connect the cable after power is turned off.
- Set the 75Ω / Hi-Z selection switch. If it is a intermediate device, switch it to Hi-z and if it is final device, switch it to 75Ω. (Please refer to the Monitor Manual.)



Panning & Tilting Control

You can adjust the Panning and Tilting angle freely. (Panning angle: 360°, Tilting angle: 10°~90°)


Tilt Base Holding Screws
Tilt Base
You can adjust up and down the camera (10°~90°).
Pan Base Holding Screw
Pan Base
You can rotate the lens from 360°

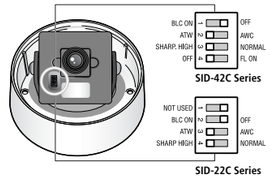
1) Adjustment Panning angle: After attaching the dome camera to a ceiling or a wall, adjust the panning angle for better monitoring area by rotating the Pan Base. The panning angle can be adjusted 360° freely.
2) Adjustment Tilting angle: After attaching the dome camera to a ceiling or a wall, adjust the tilting angle for better monitoring area by rotating the Tilt Base. The tilting angle can be adjusted to 10° from 90° freely. (based the ceiling surface)

Notes

- After loosening Pan or Tilt Base holding screws, adjust its angle. And then tighten screws again.
- AWC(Auto Balacne Control): In order to obtain the best image, mode the switch from ATW to AWC while the camera focuses on white paper.
- In case of adjusting the tilting, do not take the lens for preventing hysical shocks. Please take the Tilt Base.
- This dome camera is to be installed on the ceiling by factory default. In case of using camera on the wall, readjust the Tilt angle as page 7 (Notes).

CONFIGURATION OF DIP-SWITCHES

Use the DIP switches inside of the camera for selecting functions.



(1) Backlight Compensation (BLC)

Switch it to BLC to obtain the clear picture, the finest detail and perfect light contrast althongh there is strong backlight.

- BLC ON: When the image is in front of strong background lighting, your camera allows you to get the clear image.
- BLC OFF : Deactivate BLC control feature.
  - To use BLC more effective, Adjust the subject to be over 20% of full screen.
  - Switch to BLC OFF when the background has strong white.

Notes

- To use BLC more effective, Adjust the subject to be over 20% of full screen.
- Switch to BLC OFF when the background has strong white.

(2) White Balance Control (ATW/AWC)

Select the desired control mode using ATW/AWC switch.

- ATW(Auto Tracing White balance): The camera automatically controls the white balance in any environment.
- AWC(Auto White balance Control): In order to obtain the best image, menu the switch from ATW to AWC while the camera focuses on white paper.

(3) Sharpness

The switch emphasize the sharpness. To soften the edge move this Swich to Normal.

(4) Flickerless (SID-42C Series Only)

In this function electronic shutter speed is fixed in 1/100sec(1/120sec: PAL model). FL function can compensate the flicker caused by power frequency, but set OFF in the area not using a 60Hz(50Hz: PAL model) AC power.

TROUBLESHOOTING

If you have trouble operating your camera, refer to the following. If the guidelines do not enable you to solve the problem, contact an authorized technician.

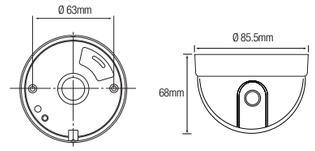
■ The image on the screen is dim.
- Check if the lens are stained. If dirty, clean the lens with soft, clean cloth.
- The image is dimmer at night than daytime. If the focus is not right, adjust it at daytime.

■ The contrast on the screen is too weak.
- Adjust the contrast feature of the monitor.
- If the camera is exposed under too strong light, change the camera position.
- Adjust the lens BACK FOCUS again.

■ The camera is not work properly, and the surface of the camera case is hot.
- Check that you have connected the camera to a proper power (DC12V).

■ Background is too bright.
- Deactivate BLC control feature.

DIMENSION



SPECIFICATION

Item		SIC-22CN	SIC-22CP	SIC-42CN	SIC-42CP
Input power		DC 12V ± 10%			
Power Consumption		1.4W		1.5W	
Operating & Humidity		-10℃ ~ +50℃ [-14℉ ~ 122℉] / 30% ~ 90% RH			
Dimension		85.5mm(Ø) x 68mm(H)			
Weihgt		160g			
Pickup Device		1/3" color interline-transfer CCD			
Video Output		1Vp-p Composite 75Ω unbalanced			
Min. illumination		0.4Lux / F1.2		0.7Lux / F1.2	
Synchronizaion		INT			
S/N		more than 48dB (Weight ON)			
Resolution		more than 330TV Line		more than 480TV Line	
Lens (Built-in)		Fixed Lens 92°, Focal Length 3.7mm, F2.2			
ESC		1/60(1/50) ~ 1/120,000sec			
White Balance		ATW / AWC Selectable			
BLC		ON / OFF Selectable			
Shrpness		High / Normal selectable			
Flickerless		Not Used		ON / OFF selectable	
Monitoring Angle	Pan	360°			
	Tilt	10° ~ 90°			

DECLARATION OF CONFORMITY

Application of Council Directive(s)	89 / 336 / EEC
Manufacturer's Name	SAMSUNG TECHWIN CO., LTD
Manufacturer's Address	SAMSUNG TECHWIN CO., LTD 42, SUNGJU-DONG CHANGWON-CITY, KYUNGNAM, KOREA, 641-120
European Representative Name	
European Representative Address	
Equipment Type/Environment	MINI DOME CAMERA
Model Name	SID-42CP / 22CP
Beginning Serial NO.	S3B00001
Year of Manufacture	2003. 11. 1
Conformance to	EN 50081-1 : 1992 EMC-Directive 89/336 EEC and 92/31/EEC EN 50130-4 : 1996

We, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s).

Manufacturer	SAMSUNG TECHWIN CO., LTD	Legal Representative in Europe
Signature	Young Taek, SON	Signature
Full Name	YOUNG TAEK SON	Full Name
Position	QUALITY CONTROL MANAGER	Position
Place	CHANGWON, KOREA	Place
Date	2003. 11. 1	Date